Vendor: Microsoft

Exam Code:AZ-201

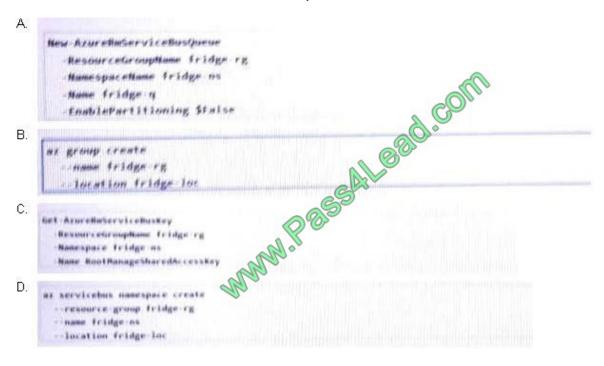**Exam Name:**Microsoft Azure Developer Advanced Solutions (beta)

Version: Demo

QUESTION 1

A company is developing a solution that allows smart refrigerators to send temperature information to a central location.

The solution must receive and store messages until they can be processed. You create an Azure Service Bus instance by providing a name, pricing tier, subscription, resource group, and location.

You need to complete the configuration.

Which Azure CLI on Power Shell command should you run?

A.
```
New-AzureRmServiceBusQueue
    -ResourceGroupName fridge-rg
    -NamespaceName fridge-ns
    -Name fridge-q
    -EnablePartitioning $false
```

B.
```
az group create
    --name fridge-rg
    --location fridge-loc
```

C.
```
Get-AzureRmServiceBusKey
    -ResourceGroupName fridge-rg
    -Namespace fridge-ns
    -Name RootManageSharedAccessKey
```

D.
```
az servicebus namespace create
    --resource-group fridge-rg
    --name fridge-ns
    --location fridge-loc
```

A. B. C. D.

Correct Answer: D

QUESTION 2

Note:this question is partof a series of questionsthat presentthe samescenario. Each questionin the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You use ASP.NET Core MVC with ADO.NET to develop an application. You implement database sharding for the application by using Azure SQL Database. You establish communication to implement a strategy that allows a group of

operations that are performed on multiple Azure

databases to be rolled back on all database if any of the operations fail.

Solution

Create stored procedures in each Azure SQL database instance to perform operations for each respective database.

Invoke anamedtransaction and usethe same namefor thetransactionin each stored procedure.

Establish a new transaction scope in a using block. Within the block, establish connections to each Azure SQL Database instance and run the stored procedure.

If no exception occurs, commit the scoped transaction.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 3

HOTSPOT

You are developing an Azure IoT Hub Device Provisioning Service as a helper service. You configure zero -touch device provisioning to an IoT Hub. All devices are exactly. You need to configure auto-provisioning for millions of devices in a

secure and scalable manner with group enrollment and roles.

What should you use? To answer, select the appropriate options in the answer area;

NOTE: Each correct selection is worth one point.

Hot Area:

Correct Answer:

Answer:

_____

QUESTION 4

Note:Thisquestionispartof aseriesofquestionsthatpresentthesamescenario.Eachquestionin the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others

might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result these questions will not appear in the review screen.

You use ASP.NET Core MVC with ADO.NET to develop an application. You implement database sharding for the application by using Azure SQL Database. You establish communication links between the sharddatabases.

Youneed to implement a strategy that allows a group of operations that are performed on multiple Azure databases to be rolled back on all databases if any of the operations fail.

Solution:

Deploy a SQL database instance in an Azure Virtual Machine (VM).

Establish linked servers to each Azure SQL Database instance from the SQL Server instance in the VM.

Create a stored procedure in the VM that performs the update operations using a distributed transaction and commits them if successful.

RuntheSQLstored procedure onthe SQL Server instance inthe VM.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 5

DRAG DROP

You are developing an application that consists of an ASP.NET Core Web API website and a WebJob that starts automatically and runs continuously. You are building the deployment process for the application.

You need to ensure that both the website and the WebJob are deployed.

How should you structure the deployment folders? To answer, drag the appropriate path segments to the correct locations. Each path segment maybe used once, more than once, or not at all. You may need to drag the split bar between

panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

QUESTION 6

Note:This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement

Solution: Update the Delivery API to send emails by using a cloud based email service.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 7

HOTSPOT

A company has an app that records and processes videos. New videos are recorded daily. The videos are displayed on the companywebsite the dayafter theyare recorded. The companyruns several servers that process data andencode the

videos. The processing servers use FFmpeg and proprietary software to encode and convert the videos.

The company plans to migrate the app to Azure. Azure Batch must be used to process videos. Each task must run a command and output the result to a file on a destination storage account.

You create and assign values to the following variables:

```
batchAccountUrl, batchAccountName, batchAccountKey, and poolId.
```

YouarereviewingcodetocreatetasksinAzureBatch.(Linenumbersareincludedforreferenceonly.)

```
01 public List<CloudTask> StartTasks(List<FileTask> fileTasks, string jobId, string outputContainerSasUrl)
02 {
03    BatchSharedKeyCredentials sharedKeyCredentials =
      new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName, batchAccountKey);
04    List<CloudTask> tasks = new List<CloudTask>();
05    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
06    {
07      CloudJob job = batchClient.JobOperations.CreateJob();
08      job.Id = jobId;
09      job.PoolInformation = new PoolInformation { PoolId = poolId };
10      job.Commit();

12    fileTasks.ForEach((fileTask) =>
13    {
14      string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
15      CloudTask task = new CloudTask(taskId, fileTask.Command);
16      List<OutputFile> outputFileList = new List<OutputFile>();
17      OutputFileBlobContainerDestination outputContainer = new OutputFileBlobContainerDestination(outputContainerSasUrl);
18      outputFileList.Add(new OutputFile(fileTask.Output,
        new OutputFileDestination(outputContainer), new OutputFileUploadOptions(OutputFileUploadCondition.TaskSuccess)));
19      task.OutputFiles = outputFileList;
20      tasks.Add(task);
21    });
22    }
23    return tasks;
24 }
25 public class FileTask
26 {
27    public string Command { get; set; }
28    public string Output { get; set; }
29 }
```

For each of the following statements, select Yes if the statement is true.

Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
This code uploads the file after the task process exits, regardless of the exit code.	○	○
The code generates a job for each fileTask.	○	○
The code stores the resulting file in outputContainer.	○	○
You must move line 15 to 11 to ensure that outputFileList is not reset for each task.	○	○

Correct Answer:

Answer Area

	Yes	No
This code uploads the file after the task process exits, regardless of the exit code.	○	○
The code generates a job for each fileTask.	○	●
The code stores the resulting file in outputContainer.	●	○
You must move line 15 to 11 to ensure that outputFileList is not reset for each task.	○	●

QUESTION 8

HOTSPOT

You are developing an SMS based testing solution. The solution sends users a question by using SMS.

Early responders may qualify for prizes.

Users must respond with an answer choice with in 90 seconds. You must be able to track how long it takes each user to respond. You create a durable Azure Function named Send Sms Quiz Question that uses Twilio to send messages.

You need to write the code for MessageQuiz.

How should you complete the code? To answer, select the appropriate options in the answer area;

NOTE: Each correct selection is worth one point.

Hot Area:

```
[FunctionName("MessageQuiz")]
public static async Task<bool> Run([OrchestrationTrigger] DurableOrchestrationContext context)
{
    string phoneNumber = context.GetInput<string>();
    int correctAnswerCode = await context.CallActivityAsync<int>("SendSmsQuizQuestion", phoneNumber);
    using (var cts = new CancellationTokenSource())
    {

    }
}
```

Options (first dropdown):

```
DateTime expiration = DateTime.UtcNow;
DateTime expiration = DateTime.UtcNow.AddSeconds(90);
DateTime expiration = DateTime.Now();
DateTime expiration = context.CurrentUtcDateTime.AddSeconds(90);
```

Options (second block):

```
var timeoutTask = context.CallActivityAsync<DateTime>("timeout", expiration);
var timeoutTask = context.CreateTimer(expiration, cts.Token);
var timeoutTask = context.WaitForExternalEvent("timeout", 90000);
var timeoutTask = context.CallSubOrchestratorAsync("timeout", expiration);
```

```
Task<int> challengeResponseTask = context.WaitForExternalEvent<int>("SmsQuizResponse");
Task winner = await Task.WhenAny(challengeResponseTask, timeoutTask);
if (winner == challengeResponseTask)
{
    if (challengeResponseTask.Result == correctAnswerCode)
    {
```

* * * * *

```
    if (winner == challengeResponseTask)
    {
        if (challengeResponseTask.Result == correctAnswerCode)
        {
            isWinner = true;
            break;
        }
    }
    else
    {
        break;
    }
}
```

Options (third block):

```
if (timeoutTask.IsCompleted)
if (!timeoutTask.IsCanceled)
if (!context.IsReplaying)
if (!cts.IsCancellationRequested)
```

```
return isWinner;
}
```

Correct Answer:

```
[FunctionName("MessageQuiz")]
public static async Task<bool> Run([OrchestrationTrigger] DurableOrchestrationContext context)
{
    string phoneNumber = context.GetInput<string>();
    int correctAnswerCode = await context.CallActivityAsync<int>("SendSmsQuizQuestion", phoneNumber);
    using (var cts = new CancellationTokenSource())
    {
```

| DateTime expiration = DateTime.UtcNow; |
| DateTime expiration = DateTime.UtcNow.AddSeconds(90); |
| DateTime expiration = DateTime.Now(); |
| DateTime expiration = context.CurrentUtcDateTime.AddSeconds(90); |

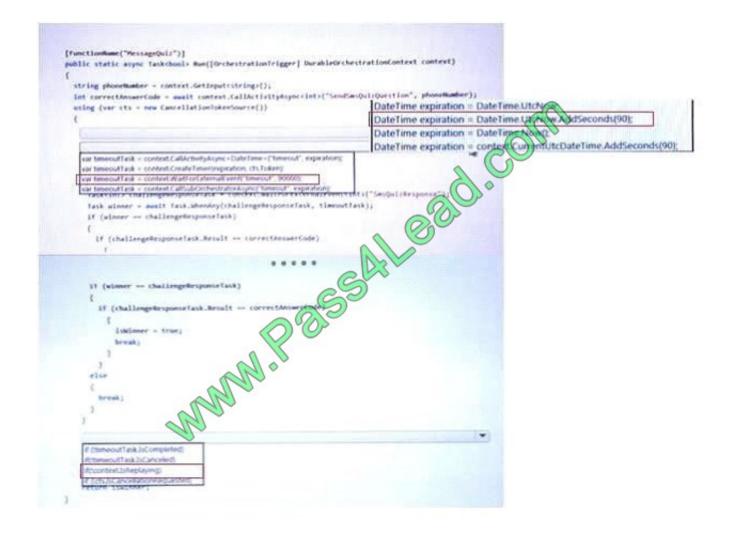| var timeoutTask = context.CallActivityAsync<DateTime>("timeout", expiration); |
| var timeoutTask = context.CreateTimer(expiration, cts.Token); |
| var timeoutTask = context.WaitForExternalEvent("timeout", 90000); |
| var timeoutTask = context.CallSubOrchestratorAsync("timeout", expiration); |

```
        Task<int> challengeResponseTask = context.WaitForExternalEvent<int>("SmsQuizResponse");
        Task winner = await Task.WhenAny(challengeResponseTask, timeoutTask);
        if (winner == challengeResponseTask)
        {
            if (challengeResponseTask.Result == correctAnswerCode)
            {
```

. . . . .

```
        if (winner == challengeResponseTask)
        {
            if (challengeResponseTask.Result == correctAnswerCode)
            {
                isWinner = true;
                break;
            }
        }
        else
        {
            break;
        }
    }
```

| if (!timeoutTask.IsCompleted) |
| if(!timeoutTask.IsCanceled) |
| if(!context.IsReplaying) |
| if (!cts.IsCancellationRequested) |

```
    return isWinner;
}
```

QUESTION 9

DRAG DROP

You develop cloud solutions an organization. The organization creates a mailing list for each new project that is announced to the public. You add users manually to a Mail Chimp list when a request email is sent to a community manager\'s

Microsoft Office 365 email account.

You need to automate the process of adding new users to the Mail Chimp list by using an Azure Logic App.

Which five actions should you perform in sequence? To answer, move the appropriate actions form the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Actions
Add an action to the If True branch that adds the user to the MailChimp list.
Create a trigger for incoming Office 365 email.
Add an Office 365 Outlook create event action.
Create an Azure Logic App.
Add a condition.
Add an Office 365 Outlook approval email action.

Answer area

Correct Answer:

Actions

Actions
Add an action to the If True branch that adds the user to the MailChimp list.
Create a trigger for incoming Office 365 email.

Answer area

Answer area
Add an Office 365 Outlook create event action.
Create an Azure Logic App.
Add a condition.
Add an Office 365 Outlook approval email action.

QUESTION 10

DRAG DROP

Youarc implementing an order processing system. A point of sale application publishes orders lo topic sin an Azure Service Bus queue.The Label property for the topic includes the following data:

Property	Description
ShipLocation	the country/region where the order will be shipped
CorrelationId	a priority value for the order
Quantity	a user-defined field that stores the quantity of items an order
AuditedAt	a user-defined field that records the date an order is audited

The system has the following requirements for subscriptions:

Subscription type	Comments
FutureOrders	This subscription is reserved for future use and must not receive any orders.
HighPriorityOrders	Handle all high priority orders and International orders.
InternationalOrders	Handle orders where the country/region is not United States.
HighQuantityOrders	Handle orders with quantities greater than 100 units.
AllOrders	This subscription is used for auditing purposes. This subscription must receive every single order. AllOrders has an Action defined that updates the AuditedAt property to include the date and time it was received by the subscription.

You need to implement filtering and maximize throughout while evaluating filters.

Which filter types should you implement?Toanswer,drag the appro priate filter types to the correct subscriptions. Each filter type may be used once, more than once, of not at all.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

QUESTION 11

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to ensure that authentication events are triggered and processed according to the policy.

Solution: Ensure that sign out events have a subject prefix. Create an Azure Event Grid subscription that uses the subject Begins With filter.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: A

QUESTION 12

You need to resolve the chatbot issue. What should you do?

A. Update the bot to store and retrieve state data;

B. Update the bot to overload the Dialog class constructor and invoke the root dialog.

C. Update the bot to pass native metadata to a channel in the Activity object\\'s Channel Data property.

D. Use the Bot Framework Connector to send and receive activities.

Correct Answer: A

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